User:

Thursday, 19/06/2008 2:33:36 PM

Julie Lecocq

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Type

Drawing Name

: BEARING

Job Number **Estimate Number** : 39962

: 10089

: //

: 39243

P.O. Number

This Issue : NC Prsht Rev.

: 19/06/2008 S.O. No. : Part Number **Drawing Number** : D312123

: D3121 REV E

Project Number

: N/A

Drawing Revision Material

: E

Due Date

100 Um:

Each

Written By

First Issue

Previous Run

: 30/06/2008

Qtv:

Checked & Approved By

Comment

04.02.19 New Issue

KJ/DS Est Rev:B ECN 1060 07-11-12 DD verified by:EC

: PURCHASED PARTS

Additional Product

Job Number:



Seq. #:

Description:

CL08/06/20

1.0

2.0

3.0

PG

PURCHASING



100

Comment: PURCHASING

6900ZZ

Issue P/O: <u>(6612</u>

Bearing as per Dwg D3121

Possible Supplier: SKF P/N: 61900-2Z or KML P/N: 6900-ZZ

Material release note is required

Bearing



Comment: Qty.: 1.0000 Each(s)/Unit

Total: 100.0000 Each(s)

Bearing

PACKAGING 1

PACKAGING RESOURCE #1











Ensure Material Release Note is attached

4.0 QC6



Comment: DIMENSIONAL CHECK





5.0

PACKAGING '

PACKAGING RESOURCE #1





Comment: PACKAGING RESOURCE #1

Identify and Stock Location:





Dart Aerospace Ltd

W/O:			WC	RK ORDER CHANGE	S				
DATE STEP		PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cateç	Jory:					
							d:	Date: _	
NCR:		\	WORK ORDE	ER NON-CONFORMAI	NCE (NCF	2)			
DATE	STEP	Description of NC		Corrective Action Section B		Verific	cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sect	Section C	Chief Eng	QC Inspector

NOTE: Date & initial all entries

Date: .

Thursday, 19/06/2008 2:33:36 PM

User:

Julie Lecocq

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BEARING

Job Number: 39962

Part Number: D312123

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

QC21

FINAL INSPECTION/W/O RELEASE



mr 08/07/0194

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Dart Aerospace Ltd

W/O:		WORK ORDER CHA	WORK ORDER CHANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					<u> </u>		
· · · · · · · · · · · · · · · · · · ·							
Dort No		DAD #1. Foult Cotomonic	NOD. V.	N- DO		D - 4	

Part No):	PAR #:	Fault Category:		NCR: Yes N	lo DQA:	Date: _	
					QA: N/C	Closed:	Date: _	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCR)			
		Description of NC		Corrective Action Sec	ction B	Verification	Approval	Annewal
DATE	STEP	Section A	Initial	Action Description	Sign &	Section C	Approval Chief Eng	Approval QC Inspector

		Description of NC		Corrective Action Section B		Verification	Ammanual	Ammanal
DATE	STEP	STEP Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector

NOTE: Date & initial all entries



DESIG	DESIGN DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED	APPROVED	DRAWING NO. REV. E
	#		D3121 SHEET 1 OF 10
DATE			TITLE SCALE
07.	11.07		BRACKET ASSEMBLY 1:2
Α		02.04.15	NEW ISSUE
В		03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146
С		04.02.17	ADD CLEARANCE; USE -241 BEARING
D		06.05.17	D3121-25 CAP WAS 1.024, NOW 1.000



- D3121-2 D3121-2		(1)
BEARING	ASSEMB	LY (1)

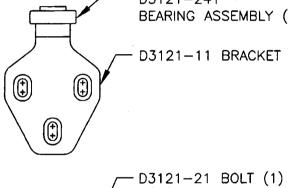
Εl

D3121-041 BRACKET ASSEMBLY

07.11.07

(REPLACES PREMIER P/N B30-23000-33)

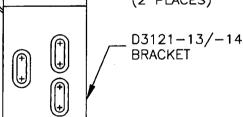
ADD TOLERANCE TO 0.032 (DETAIL B)

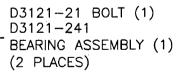


D3121-241 BEARING ASSEMBLY (1) (2 PLACES)

D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET_ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



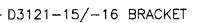


D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-35/-36) SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT

WITHOUT NOTICE

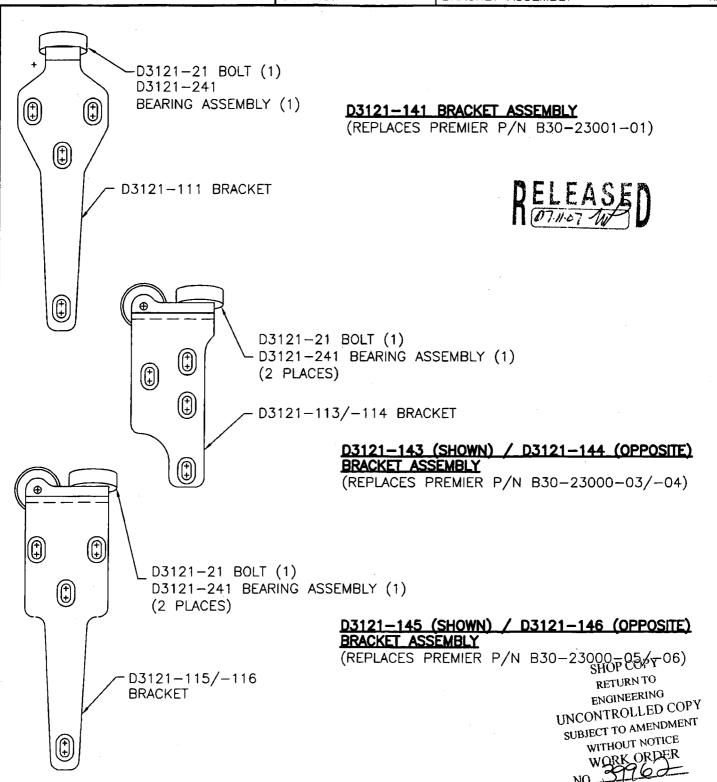
WORK ORDER



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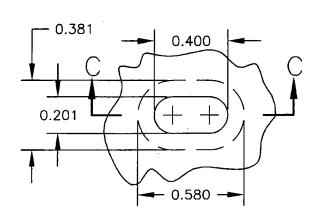
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CHECKED	APPROVED	DRAWING NO.	REV. E	
4		D3121	SHEET 2 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	

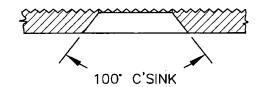




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4	-#	D3121	SHEET 3 OF 10
DATE		TITLE	SCALE
07.11.07		BRACKET ASSEMBLY	1:1

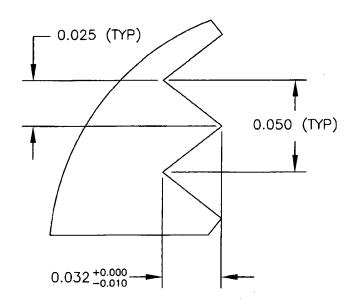
DETAIL A: SLOT DETAIL SCALE 2:1 VIEW ROTATED





RELEASED

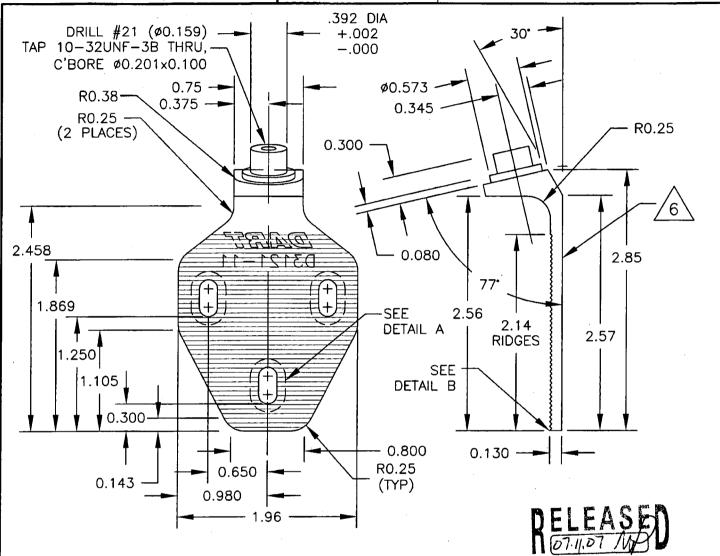
<u>DETAIL B:</u> RIDGE DETAIL PARTIAL SECTION SCALE 1:20



SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE



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1	#	- 	D3121	SHEET 4 OF 10
i	DATE		TITLE	SCALE
	07.11.07		BRACKET ASSEM	ABLY 1:1



D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) SHOP COPY MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

ENGINEERING UNCONTROLLED COPY

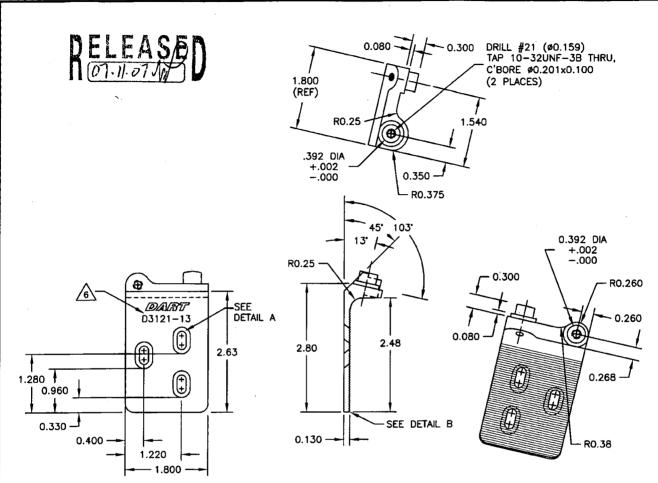
SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER

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4	 	D3121	SHEET 5 OF 10		
DATE		TITLE	SCALE		
07.11.07		BRACKET ASSEMBLY	1:2		



D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE STRENGTH = 150 ksi
MIN YIELD TENSILE STRENGTH = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

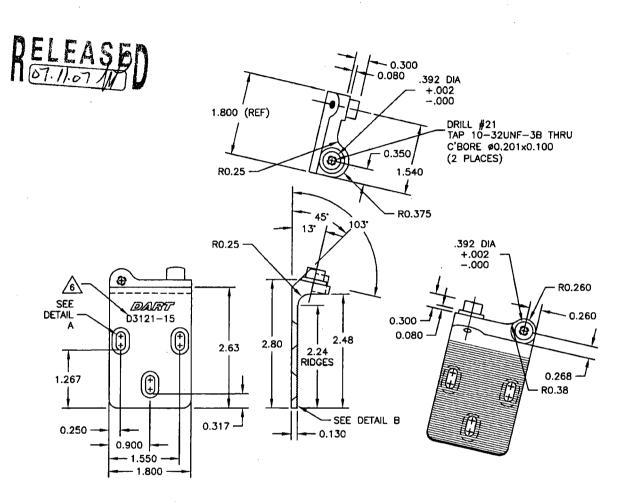
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N & LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

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#	4	D3121	SHEET 6 OF 10		
DATE		TITLE	SCALE		
07.11.07		BRACKET ASSEMBLY	1:2		



D3121-15 BRACKET (SHOWN) D3121-16 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)

MIN ULTIMATE TENSILE = 150 ksi MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N AND LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT

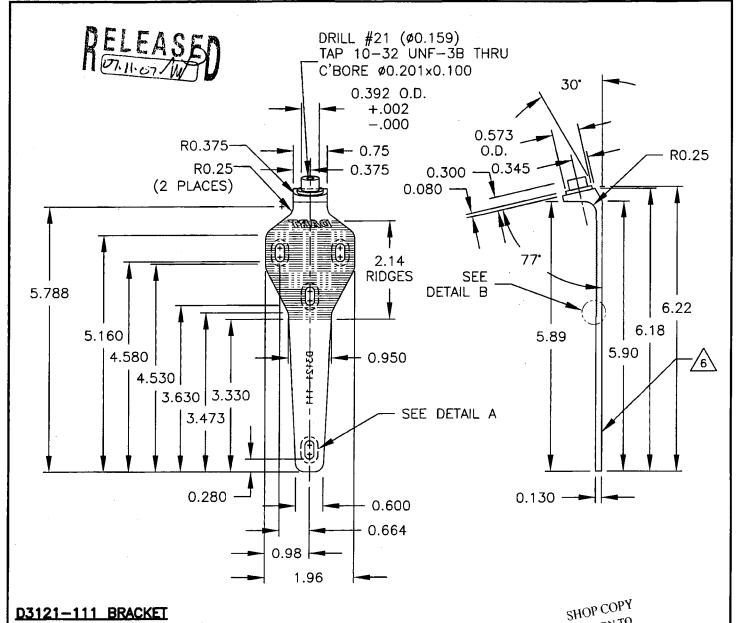
WITHOUT NOTICE WORK ORDER

WORK ORDER NO. 39962

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4		D3121	SHEET 7 OF 10
DATE		TITLE ·	SCALE
07.11.07		BRACKET ASSEMBLY	1:2



D3121-111 BRACKET

1) REPLACES PREMIER P/N B32-23001-11

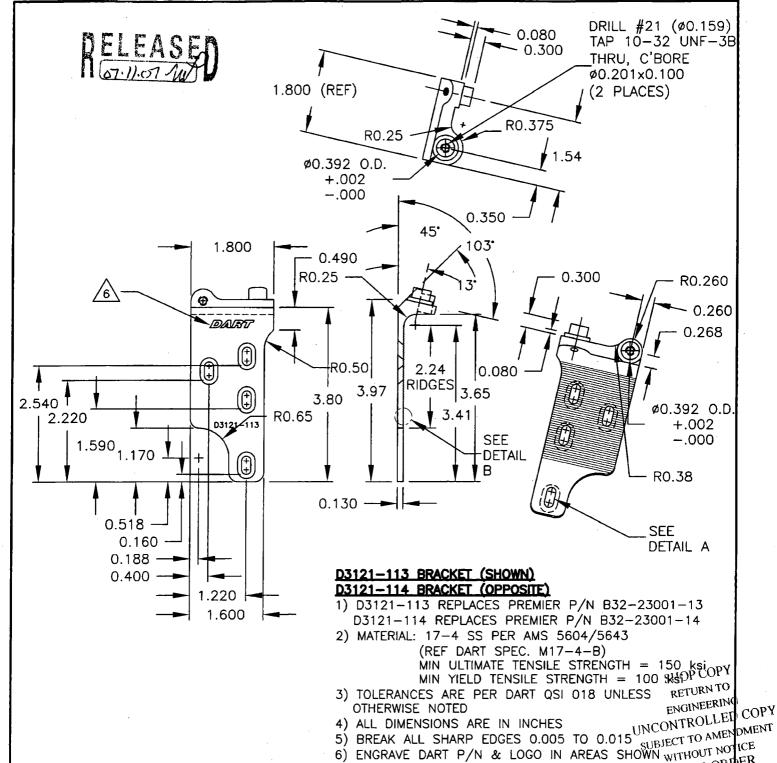
RETURN TO 2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT MIN ULTIMATE TENSILE = 150 ksi WITHOUT NOTICE MIN YIELD TENSILE = 100 ksi WORK ORDER

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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4#	-#	D3121	SHEET 8 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	

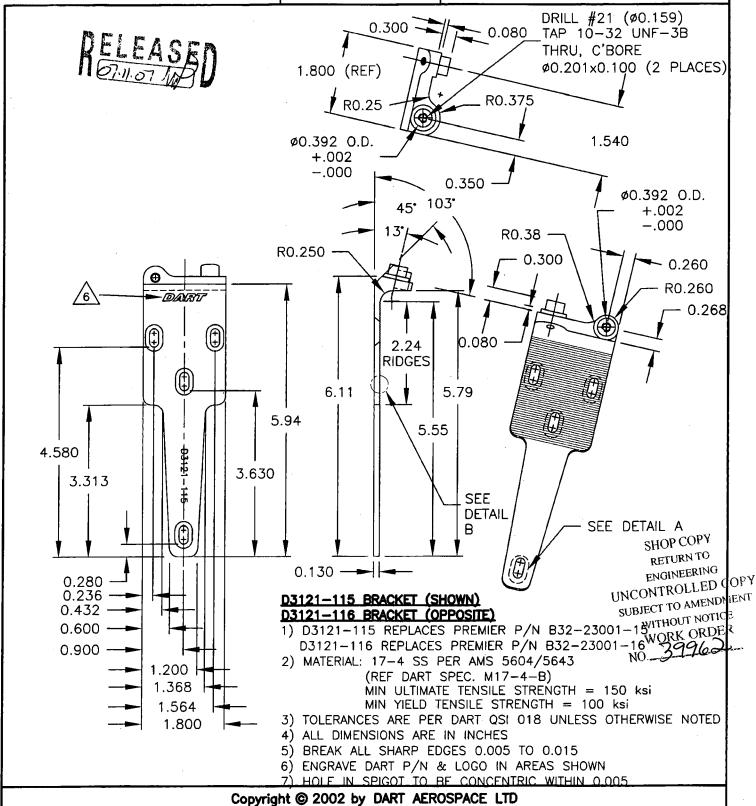


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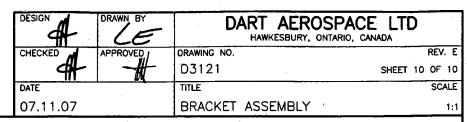
6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN WITHOUT NOTICE 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHOUT NOTICE 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005 PK OF

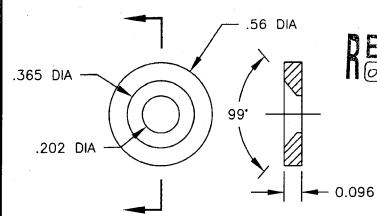


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	CHECKED	APPROVED.	DRAWING NO.		REV. E SHEET 9 OF 10	
ĺ	DATE		TITLE		SCALE	
	07.11.07		BRACKET	ASSEMBLY	1:2	



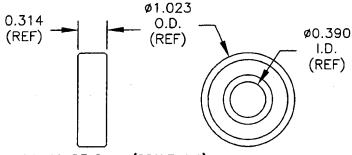






D3121-17 WASHER (SCALE 2:1)

- 1) REPLACES PREMIER P/N B32-23001-17
- 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-19 BEARING (SCALE 1:1)

- 1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM 1) MATERIAL: DELRIN ROD, Ø1.25 FAFNIR P/N 9100KDD
- 2) ALL DIMENSIONS ARE IN INCHES



D3121-23 BEARING (SCALE 1:1)

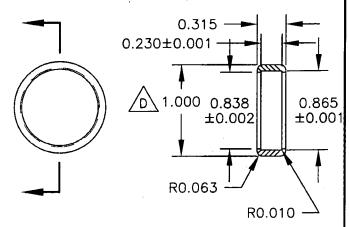
1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z OR KML P/N 6900-ZZ

ALL DIMENSIONS ARF IN INCHES

0.375 TAP 10-32 UNF-3A 0.080 0.050 TO 0.060

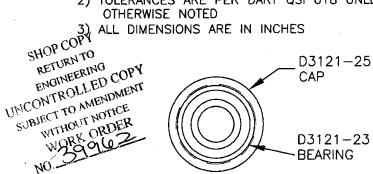
D3121-21 BOLT (SCALE 1:1)

- 1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)
- FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-25 CAP (SCALE 1:1)

- - (REF DART SPEC. M-DELRIN-R1.250)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS



D3121-241 BEARING ASSEBLY (SCALE 1:1)

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